

Title (en)

Analytical element for determination of hydrogen peroxide and analytical method using the same.

Title (de)

Analytisches Element zur Bestimmung von Wasserstoffperoxid und seine Verwendung in einem analytischen Verfahren.

Title (fr)

Élément analytique pour la détermination du peroxyde d'hydrogène et méthode analytique l'utilisant.

Publication

**EP 0268167 A2 19880525 (EN)**

Application

**EP 87116412 A 19871106**

Priority

JP 27343386 A 19861117

Abstract (en)

Disclosed is an analytical element for determination of hydrogen peroxide, which comprises using an analytical element containing a substance having the action of peroxidation, a compound represented by Formula (I) shown below, and an aromatic primary amine compound, or a salt thereof, capable of forming a dye through the coupling reaction with the compound represented by Formula (I) shown below: <CHEM> wherein Z represents a group of nonmetallic atoms necessary for forming a nitrogen-containing heterocyclic ring, which ring formed by Z may have a substituent; X represents a hydrogen atom or a group capable of being split off through the reaction with an oxidized product of the aromatic primary amine compound; and R represents a hydrogen atom or a substituent. Disclosed is also an analytical method for determination of hydrogen peroxide by use of the above analytical element. As described in the foregoing, the analytical element of this invention can exhibit the remarkable effect that the determination sensitivity can be greatly improved.

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